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IBM Virtual Machine/ Personal Computer User's Guide

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**Mary Lovelace, Werner Bauer, Juliana
Eneas, Michele Lanthier, Norbert
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IBM TS7700 Release 4.2 Guide Larry Coyne,Derek Erdmann,Joe Hew,Sosuke Matsui,Alberto Barajas Ortiz,Aderson Pacini,Michael Scott,Chen Zhu,IBM Redbooks,2019-04-19 This IBM Redbooks publication covers IBM TS7700 R4 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on over 20 years of virtual tape experience the TS7760 now supports the ability to store virtual tape volumes in an object store The TS7700 has supported off loading to physical tape for over two decades Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world Using the same hierarchical storage techniques the TS7700 can also off load to object storage Given object storage is cloud based and accessible from different regions the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of the release of this document the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 To learn about the TS7760 cloud storage tier function planning implementation best practices and support see IBM Redpaper IBM TS7760 R4 2 Cloud Storage Tier Guide redp 5514 at <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular scalable and high performance architecture for mainframe tape virtualization for the IBM Z environment It is a fully integrated tiered storage hierarchy of disk and tape This storage hierarchy is managed by robust storage management microcode with extensive self management capability It includes the following advanced functions Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost time and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries drives and media TS7700 delivers the following new capabilities TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8 way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4 8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library The TS7760 models are based on high performance and redundant IBM POWER8 technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

IBM System Storage Business Continuity: Part 2 Solutions Guide Charlotte Brooks,Clem Leung,Aslam Mirza,Curtis Neal,Yin Lei Qiu,John Sing,Francis TH Wong,Ian R Wright,IBM Redbooks,2009-06-09 This IBM Redbooks publication is a companion to IBM System Storage Business Continuity Part 1 Planning Guide SG24 6547 We assume that the reader of this

book has understood the concepts of Business Continuity planning described in that book In this book we explore IBM System Storage solutions for Business Continuity within the three segments of Continuous Availability Rapid Recovery and Backup and Restore We position these solutions within the Business Continuity tiers We describe in general the solutions available in each segment then present some more detail on many of the products In each case the reader is pointed to sources of more information

DFSMSHsm Fast Replication Technical Guide Keith Winnard, Jeanne Vangsness, IBM Redbooks, 2015-05-12 DFSMSHsm fast replication provides DFSMSHsm management for the use of volume level fast replication Fast replication is made possible by using the FlashCopy capability of storage servers With this capability a set of storage groups can be defined as a copy pool The volumes in this pool are processed collectively creating by fast replication backup versions that are managed by DFSMSHsm Recovery can be performed at the volume or copy pool level This capability is designed to work specifically with DB2 Version 8 or later With DFSMSHsm fast replication the backup and recovery of DB2 copy pools can be managed by DFSMSHsm DFSMSHsm fast replication provides a quick easy to use backup and recovery solution This IBM Redbooks publication consists of a technical overview of the DFSMSHsm fast replication function in z OS V1R12 Data Facility Storage Management Subsystem DFSMS It provides you with the information that you need to understand and evaluate the function with practical implementation hints and tips This book is written for storage professionals database administrators and system programmers who have experience with the components of DFSMS It provides sufficient information for you to implement the DFSMSHsm fast replication function in your storage environment

ABCs of IBM z/OS System Programming Volume 3 Jose Gilberto Biondo Jr., IBM Redbooks, 2018-01-19 The ABCs of IBM z OS System Programming is a 13 volume collection that provides an introduction to the z OS operating system and the hardware architecture Whether you are a beginner or an experienced system programmer the ABCs collection provides the information that you need to start your research into z OS and related subjects The ABCs collection serves as a powerful technical tool to help you become more familiar with z OS in your current environment or to help you evaluate platforms to consolidate your e business applications This edition is updated to z OS Version 2 Release 3 The other volumes contain the following content Volume 1 Introduction to z OS and storage concepts TSO E ISPF JCL SDSF and z OS delivery and installation Volume 2 z OS implementation and daily maintenance defining subsystems IBM Job Entry Subsystem 2 JES2 and JES3 link pack area LPA LNKLST authorized libraries System Modification Program Extended SMP E IBM Language Environment Volume 4 Communication Server TCP IP and IBM VTAM Volume 5 Base and IBM Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z OS system operations automatic restart manager ARM IBM Geographically Dispersed Parallel Sysplex™ IBM GDPS Volume 6 Introduction to security IBM RACF Digital certificates and PKI Kerberos cryptography and z990 integrated cryptography zSeries firewall technologies LDAP and Enterprise Identity Mapping EIM Volume 7 Printing in a z OS environment Infoprint Server and Infoprint Central Volume 8

An introduction to z OS problem diagnosis Volume 9 z OS UNIX System Services Volume 10 Introduction to IBM z Architecture the IBM Z platform IBM Z connectivity LPAR concepts HCD and DS Storage Solution Volume 11 Capacity planning performance management WLM IBM RMFTM and SMF Volume 12 WLM Volume 13 JES3 JES3 SDSF **IBM z/OS V2.1 DFSMS Technical Update** Mary Lovelace, Jose Dovidauskas, Anthony Fletcher, Gert Laumann, Norbert Schlumberger, IBM Redbooks, 2014-09-15 Each release of IBM z OS DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements integrated into z OS V2 1 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips This book is written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment IBM Systems Journal International Business Machines Corporation, 2003 *IBM Virtualization Engine TS7700 with R 2.0* Karan Singh, Søren Aakjær, John Khazraee, Tom Koudstaal, Aderson J.C. Pacini, Patrick Wolf, IBM Redbooks, 2012-02-20 This IBM Redbooks publication highlights TS7700 Virtualization Engine Release 2 0 It is intended for system architects who want to integrate their storage systems for smoother operation The IBM Virtualization Engine TS7700 offers a modular scalable and high performing architecture for mainframe tape virtualization for the IBM System z environment It integrates 3592 Tape Drives high performance disks and the new IBM System p server into a storage hierarchy This storage hierarchy is managed by robust storage management firmware with extensive self management capability It includes the following advanced functions Policy management to control physical volume pooling Cache management Dual copy including across a grid network Copy mode control The TS7700 Virtualization Engine offers enhanced statistical reporting It also includes a standards based management interface for TS7700 Virtualization Engine management The new IBM Virtualization Engine TS7700 Release 2 0 introduces the next generation of TS7700 Virtualization Engine servers for System z tape IBM Virtualization Engine TS7720 Server Model VEB IBM Virtualization Engine TS7740 Server Model V07 These Virtualization Engines are based on IBM POWER7 technology They offer improved performance for most System z tape workloads compared to the first generation of TS7700 Virtualization Engine servers *IBM TS7700 Release 3.3* Larry Coyne, Robert Beiderbeck, Katja Deneffle, Joe Hew, Sosuke Matsui, Aderson Pacini, Markus Schäfer, Michael Scott, Chen Zhu, IBM Redbooks, 2017-04-11 Note The IBM TS7700 Release 4 0 Guide SG24 8366 is available at <http://www.redbooks.ibm.com/abstracts/sg248366.html> IBM TS7700 is a family of mainframe virtual tape solutions that optimize data protection and business continuance for IBM z Systems™ data Through the use of virtualization and disk cache the TS7700 family operates at disk speeds while maintaining compatibility with existing tape operations Its fully integrated tiered storage

hierarchy takes advantage of both disk and tape technologies to deliver performance for active data and best economics for inactive and archive data This IBM Redbooks publication describes the TS7700 R3 3 architecture planning migration implementation and operations The latest TS7700 family of z Systems tape virtualization is offered as two models IBM TS7720 features encryption capable high capacity cache that uses 3 TB SAS disk drives with RAID 6 which can scale to large capacities with the highest level of data protection IBM TS7740 features encryption capable 600 GB SAS drives with RAID 6 protection Both models write data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and earlier IBM 3592 model tape drives that are installed in IBM TS3500 tape libraries Physical tape support is optional on TS7720 TS7700 R3 3 also supports external key management for disk based encryption by using IBM Security Key Lifecycle Manager This book intended for system architects who want to integrate their storage systems for smoother operation

Reduce Storage Occupancy and Increase Operations Efficiency with IBM zEnterprise Data Compression Paolo Bruni, Maria Kroos Boisen, Gianmauro De Marchi, Franco Pinto, IBM Redbooks, 2018-12-17 IBM zEnterprise Data Compression zEDC capability and the Peripheral Component Interconnect Express PCIe or PCI Express hardware adapter called zEDC Express were announced in July 2013 as enhancements to the IBM z OS V2 1 operating system OS and the IBM zEnterprise EC12 zEC12 and the IBM zEnterprise BC12 zBC12 zEDC is optimized for use with large sequential files and uses an industry standard compression library zEDC can help to improve disk usage and optimize cross platform exchange of data with minimal effect on processor usage The first candidate for such compression was the System Management Facility SMF and support for basic sequential access method BSAM and queued sequential access method QSAM followed in first quarter 2014 IBM software development kit SDK 7 for z OS Java IBM Encryption Facility for z OS IBM Sterling Connect Direct for z OS and an IBM z VM guest can also use zEDC Express zEDC can also be used for Data Facility Storage Management Subsystem data set services DFSMSdss dumps and restores and for DFSMS hierarchical storage manager DFSMSHsm when using DFSMSdss for data moves This IBM Redbooks publication describes how to set up the zEDC functionality to obtain the benefits of portability reduced storage space and reduced processor use for large operational sets of data with the most current IBM System z environment

z/OS V1.13 DFSMS Technical Update Mike Ebbers, Mary Lovelace, Andre Luiz Coelho Da Silva, Anthony Fletcher, Gert Laumann, Alvaro Salla, Norbert Schlumberger, IBM Redbooks, 2012-09-23 Each release of IBM Data Facility Storage Management Subsystem DFSMS builds on the previous version The latest release IBM z OS V1 13 DFSMS provides enhancements in these areas for the z OS platform in a system managed storage environment Storage management Data access Device support Program management Distributed data access This IBM Redbooks publication provides a summary of the functions and enhancements in z OS V1 13 DFSMS It provides information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips This book also includes enhancements that are available by enabling PTFs that have been integrated into z OS DFSMS V1 13 This book was

written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment

IBM DS8000 Copy Services: Updated for IBM DS8000 Release 9.1 Bertrand Dufrasne, Michael Frankenberg, Tony Eriksson, Lisa Martinez, Suellen Ricardo Fida, Connie Riggins, Mark Wells, IBM Redbooks, 2023-01-27 This IBM Redbooks publication helps you plan install configure and manage Copy Services on the IBM DS8000 operating in an IBM Z or Open Systems environment This book helps you design and implement a new Copy Services installation or migrate from an existing installation It includes hints and tips to maximize the effectiveness of your installation and information about tools and products to automate Copy Services functions It is intended for anyone who needs a detailed and practical understanding of the DS8000 Copy Services This edition is an update for the DS8900 Release 9.1 Note that the Safeguarded Copy feature is covered in IBM DS8000 Safeguarded Copy REDP 5506

Reduce Risk and Improve Security on IBM Mainframes: Volume 1 Architecture and Platform Security Axel Buecker, Boudhayan Chakrabarty, Lennie Dymoke-Bradshaw, Cesar Goldkorn, Brian Hugenbruch, Madhukar Reddy Nali, Vinodkumar Ramalingam, Botrous Thalouth, Jan Thielmann, IBM Redbooks, 2016-03-22 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM System z hardware and software In an age of increasing security consciousness IBM System z provides the capabilities to address the needs of today's business security challenges This publication explores how System z hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements This book highlights the features of IBM z OS and other operating systems which offer various customizable security elements under the Security Server and Communication Server components This book describes z OS and other operating systems and additional software that leverage the building blocks of System z hardware to provide solutions to business security needs This publication's intended audience is technical architects planners and managers who are interested in exploring how the security design and features of System z the z OS operating system and associated software address current issues such as data encryption authentication authorization network security auditing ease of security administration and monitoring

DB2 9 for z/OS and Storage Management Paolo Bruni, John Iczkovits, Hennie Mynhardt, Peter Zerbini, IBM Redbooks, 2010-09-17 This IBM Redbooks publication can help you tailor and configure DFSMS constructs to be used in an IBM DB2 9 for z OS environment In addition it provides a broad understanding of new disk architectures and their impact in DB2 data set management for large installations This book addresses both the DB2 administrator and the storage administrator The DB2 administrator can find information about how to use DFSMS for managing DB2 data sets the storage administrator can find information about the characteristics of DB2 data sets and how DB2 uses the disks This book describes optimal use of disk storage functions in DB2 for z OS environments that can best make productive use of the synergy with I/O subsystem on IBM System z This book covers the following topics Using SMS to

manage DB2 catalog log data indexes image copies archives work files Taking advantage of IBM FlashCopy for DB2 utilities striping copy pools Setting page sizes and using sliding allocation A description of PAV MA MIDAW EF EA EAV zHPF and why they are helpful Compressing data and the use disk and tape for large data sets Backup and restore and remote copy services

Best Practices for DS8000 and z/OS HyperSwap with Copy Services Manager Thomas Luther,Alexander Warmuth. Marcelo Takakura,IBM Redbooks,2019-06-21 Many IBM z OS customers require their applications to be available 24x7 Whether the business requirements are high availability HA disaster recovery DR or business continuity IBM HyperSwap technology can provide an adequate solution HyperSwap is the industry standard and is provided as several different implementation options to meet the various business needs of the IBM System z and z OS customer base IBM Copy Services Manager CSM enables you to manage z OS HyperSwap and helps you manage planned and unplanned actions in an z OS environment from an open systems environment This IBM Redbooks publication provides best practices for the planning implementing integrating and managing z OS HyperSwap with CSM

IBM DS8000 Transparent Cloud Tiering: DS8000 Release 9.3 Alexander Warmuth,Nielson “Nino” de Carvalho,IBM Redbooks,2023-04-20 This IBM Redbooks publication gives a broad understanding of storage clouds and the initial functions that were introduced for mainframe data to be transferred to cloud storage IBM Data Facility Storage Management Subsystem DFSMS and the IBM DS8000 added functions to provide elements of serverless data movement and for IBM z OS to communicate with a storage cloud The function is known as Transparent Cloud Tiering TCT and is composed of the following key elements A gateway in the DS8000 which allows the movement of data to and from Object Storage by using a network connection DFSMSHsm enhancements to support Migrate and Recall functions to and from the Object Storage Other commands were enhanced to monitor and report on the new functions DFSMSHsm uses the Web Enablement toolkit for z OS to create and access the metadata for specific clouds containers and objects DFSMSdss enhancements to provide some basic backup and restore functions to and from the cloud The IBM TS7700 can also be set up to act as though it is cloud storage from the DS8000 perspective This IBM Redbooks publication is divided into the following parts Part 1 provides you with an introduction to clouds It provides basic knowledge and terminology Part 2 shows you how we set up the TCT in a controlled laboratory and how the new functions work We provide points to consider to help you set up your storage cloud including network connectivity and integrate it into your operational environment Part 3 shows you how we used the new functions to communicate with the cloud and to send data to it and retrieve data from it This edition applies to DS8900F Release 9 3 and covers more recent features of TCT such as multi cloud connections along with extra advice for high availability cloud connectivity and DFSMSHsm improvements

Reduce Risk and Improve Security on IBM Mainframes: Volume 3 Mainframe Subsystem and Application Security Axel Buecker,Marcela Kanke,Mohit Mohanan,Vinicius Oliveira,Vinodkumar Ramalingam,David Rowley,Botrous Thalouth,Jan Thielmann,IBM Redbooks,2015-11-02 This IBM Redbooks publication documents the strength and value of the

IBM security strategy with IBM zTM Systems hardware and software In an age of increasing security consciousness and more and more dangerous advanced persistent threats IBM z SystemsTM provides the capabilities to address the needs of today s business security challenges This publication explores how z Systems hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements We highlight the features of IBM z OS and other operating systems which offer a variety of customizable security elements We discuss z OS and other operating systems and additional software that use the building blocks of z Systems hardware to provide solutions to business security needs We also explore the perspective from the view of an enterprise security architect and how a modern mainframe has to fit into an overarching enterprise security architecture This book is part of a three volume series that focuses on guiding principles for optimized mainframe security configuration within a holistic enterprise security architecture The series intended audience includes enterprise security architects planners and managers who are interested in exploring how the security design and features of z Systems the z OS operating system and associated software address current issues such as data encryption authentication authorization network security auditing ease of security administration and monitoring

z/OS V1.11 DFSMS Release Guide Mary Lovelace,Andre Luiz Coelho Da Silva,Anthony Fletcher,Juergen

Hoerner,Norbert Schlumberger,Hien Troung,Craig Vernon,IBM Redbooks,2010-11-19 Each release of data facility storage management subsystem DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements in z OS V1R11 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips Also included are enhancements that were made available through an enabling PTF that has been integrated into z OS DFSMS V1R11 This book was written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment [MVS Answer Book](#) David

J. Sacks,1994-03-16 An essential guide for all MVS system and application programmers this handbook will help programmers to assess their current knowledge of MVS and increase their understanding of large systems and principles It will also help them learn more about the problems and needs common to MVS installations and to review a range of important large system topics **IBM DS8000 Easy Tier (Updated for DS8000 R9.0)** Bertrand Dufrasne,Peter

Kimmel,Matthew Houzenga,Dennis Robertson,IBM Redbooks,2022-02-23 This IBM RedpaperTM publication describes the concepts and functions of IBM System Storage Easy Tier and explains its practical use with the IBM DS8000 series and License Machine Code 7 9 0 xxx also known as R9 0 Easy Tier is designed to automate data placement throughout the storage system disks pool It enables the system to automatically and without disruption to applications relocate data at the

extent level across up to three drive tiers The process is fully automated Easy Tier also automatically rebalances extents among ranks within the same tier removing workload skew between ranks even within homogeneous and single tier extent pools Easy Tier supports a Manual Mode that enables you to relocate full volumes Manual Mode also enables you to merge extent pools and offers a rank depopulation function Easy Tier fully supports thin provisioned Extent Space Efficient fixed block FB and count key data CKD volumes in Manual Mode and Automatic Mode Easy Tier also supports extent pools with small extents 16 MiB extents for FB pools and 21 cylinders extents for CKD pools Easy Tier also supports high performance and high capacity flash drives in the High performance flash enclosure and it enables additional user controls at the pool and volume levels This paper is aimed at those professionals who want to understand the Easy Tier concept and its underlying design It also provides guidance and practical illustrations for users who want to use the Easy Tier Manual Mode capabilities Easy Tier includes additional capabilities to further enhance your storage performance automatically Easy Tier Application and Easy Tier Heat Map Transfer

z/OS V1.12 DFSMS Technical Update Mary Lovelace, Werner Bauer, Juliana Eneas, Michele Lanthier, Norbert Schlumberger, Jeanne Vangsness, Gerhard Weisshaar, IBM Redbooks, 2011-09-30 Each release of DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements in z OS V1R12 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips Also included are enhancements that were made available through enabling PTFs that have been integrated into z OS V1R12 DFSMS This book was written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment

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